Notice of Allowability	Application No.	Applicant(s)	
	10/664,882	AIDA ET AL.	
	Examiner	Art Unit	
	Esaw T. Abraham	2133	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due cours	e. THIS he initiative
1. This communication is responsive to Amdt after final filed of	on 10/24/06.		
2. The allowed claim(s) is/are 2-8 (renumbered as 1-7).			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No cuments have been received in this i	national stage application fr	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			E OF
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 			
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary		
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. Examiner's Amendr	e	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	nt of Reasons for Allowanc	e
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DETAILED ACTION

Examiner's statement for reason for allowance

1. Claims 2-7 have been allowed.

The following is an examiner's statement for allowance:

As per claim 2:

The prior art of record Marukawa (U.S. PN: 6,836511) teach a digital reproduced signal processing apparatus for reading out a signal from a recording medium of a digital recording apparatus comprising: an analog/digital converter for converting the analog reproduced signal; an FIR filter for filtering the digital reproduced signal with the use of an adaptive equalization coefficient; an adaptive equalization coefficient setting device (a target holding means) for equalizing the impulse response of the digital reproduced signal with the impulse characteristic of a partial response defined by (a, b, b, a) and determining the adaptive equalization coefficient to release the digital reproduced signal filtered by the FIR filter as an equalized digital reproduced signal; a phase comparator for detecting a phase error signal from the digital reproduced signal or the equalized digital reproduced signal; a partial response temporal judgment device responsive to the output signal of the FIR filter for producing and feeding a temporal data judgment signal to the adaptive equalization coefficient setting device and the phase comparator and a Viterbi decoder for decoding the equalized digital reproduced signal released from the FIR filter to a data for judgment (See col. 4, lines 46-67).

However, the prior art taken singly or in combination fail to teach, anticipate, suggest, or render obvious a filter receiving output of the analog-to-digital conversion means, the filter having a taps of which coefficients are variable; and error minimization means for updating the tap coefficients of the filter so that an error between an output of the filter and the output of the target holding means is minimized wherein the quality of the analog signal is adjusted so that the parameter signal is minimized, to thereby optimize the margin of the error rate of played-back data which the prior art do not teach or render obvious. Consequently, claim 2 is allowed over the prior art.

Claims 3-8, which is/are directly or indirectly dependent/s of claim 2 are also allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Esaw Abraham whose telephone number is (571) 272-3812. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are successful, the examiner's supervisor, Albert DeCady can be reached on (571) 272-3819. The fax phone numbers for the organization where this application or proceeding is assigned (571) 273-8300.

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Esaw Abraham

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100